

Plexus

Plexus Mesh-networking Radio System

MEA's affordable new wireless soil moisture monitoring system allows you to create a network of sensors that covers a few - or hundreds - of hectares

- **Designed for years of maintenance free operation**
- **Local support from your MEA Agent**
- **Soil moisture only, or moisture, temperature and optional EC**

Field stations hop data from station to station along an optimal path until the Hub is reached. Each field station can store its measurements locally. This means that if any link in the chain breaks, measurements continue until the mesh can heal itself. The surrounding radios simply look for the next closest station and form a new network! This makes for an ultra-reliable network which can deal with its own problems and operate in complex terrain without losing your vital soil moisture readings.

When measurements reach the Hub, they are sent to the clever **Green Brain** Web Application, which lets you check your data on your computer, tablet or smart phone. Working together, Plexus and Green Brain deliver up-to-date soil moisture data to your computer or smart device whenever you want.

GBT Field Stations can monitor gypsum blocks (measuring soil moisture tension, an indicator of how hard the plant has to work to extract water from the soil), temperature sensors or any mixture of temperature sensors and gypsum blocks. EP Field Stations monitor EnviroPro probes (measuring soil moisture content, soil temperature and EC (optional)). AquaCheck Field Stations can monitor AquaCheck probes (measuring soil moisture content and temperature).

Plexus stations are powered from their own solar panel, charging an internal lithium-ion battery.

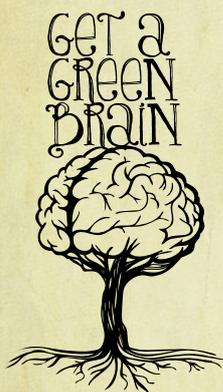
Applications

Plexus creates soil moisture monitoring networks that deliver data to you anywhere, anytime.



Specifications for Plexus

Sensors Supported	Gypsum blocks, temperature sensors, capacitance probes (EnviroPro or AquaCheck)
Field Stations Supported	Up to 60.
Wireless Transmission Distance	1 km from field station-to-field station or field station-to-Hub.
Data Transfer from Hub	Via mobile network to the Web, viewable on your Smart device or PC.
Power Supply	Solar panel charging an internal Lithium-ion battery. Expected battery life is 8 years.



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soil moisture
and
climate monitoring
with
certainty